

CATALYTIC OXIDATION REACTOR FOR GASEOUS MIXTURES**Publication number:** DE3729114**Publication date:** 1989-03-23**Inventor:** LEDJEFF KONSTANTIN DIPL PHYS D (DE)**Applicant:** FRAUNHOFER GES FORSCHUNG (DE)**Classification:**

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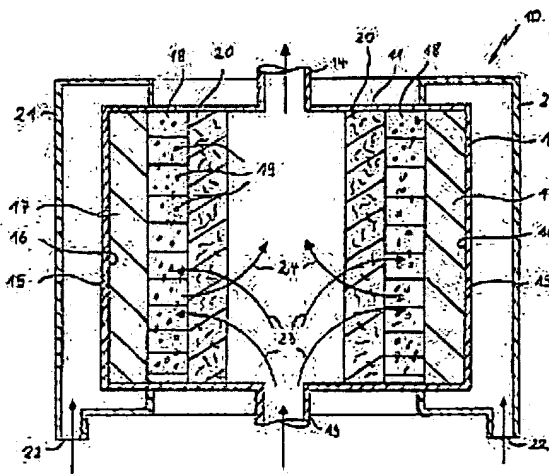
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A catalytic oxidation reactor (10) for gaseous mixtures composed of oxygen and at least one combustible gas in contact therewith comprises a reactor (12) in communication with a coolant contained in a cooling element (21). A first gas-permeable layer (18) containing a catalyst (19) for the oxidation reaction is arranged in the reactor (12). On the side facing the gaseous mixture, the first layer (18) has a second gas-permeable layer (20) and on the other side a third layer (17) impermeable to gases and liquids and in thermal contact with the coolant. The reactor therefore operates on the countercurrent principle (arrows 23, 24).

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